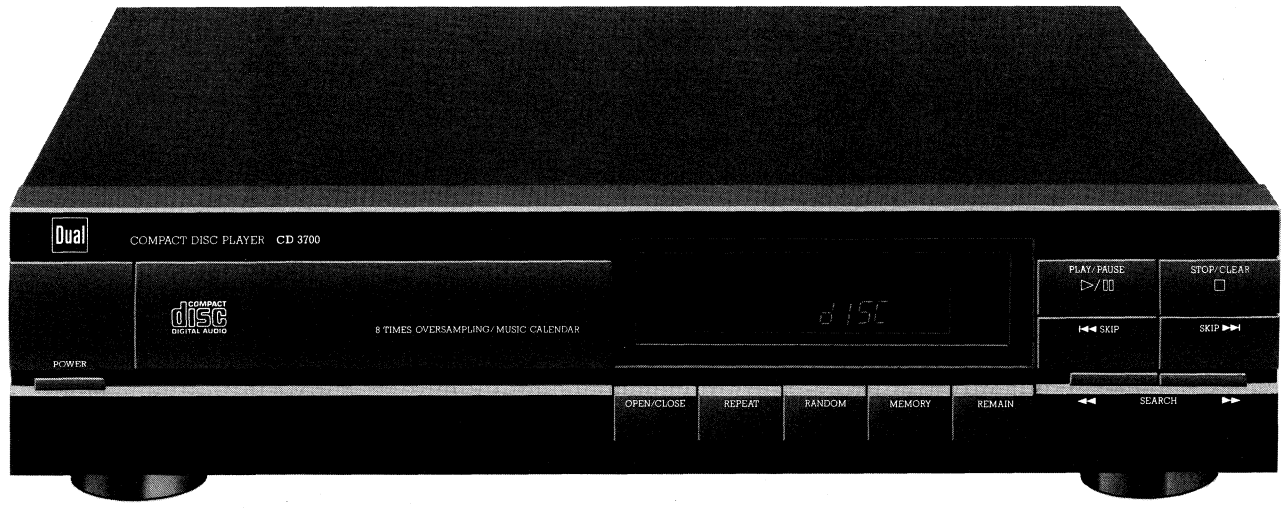
Service-Anleitung
Service Manual
Instructions de Service

CD 3700



Technische Daten Meßwerte = typische Werte	**Technical data** Measured values = typical values	**Caractéristiques techniques** Valeurs mesurées = valeurs typiques	**Dati tecnici** Valori di misuri = valori tipici	**Dual CD 3700**
Frequenzbereich	**Frequency response**	**Courbe de réponse**	**Banda do Frequenza**	20–20 000 Hz ± 0,7 dB
Geräuschspannungsabstand	**Signal to noise ratio**	**Rapport signal/bruit**	**Rapporto segnale disturbo**	100 dB
Dynamikbereich	**Dynamic range**	**Dynamique**	**Dinamica**	94 dB
Übersprechdämpfung (1 kHz)	**Crosstalk (1 kHz)**	**Diaphonie (1 kHz)**	**Diafonia**	92 dB
Klirrfaktor (1 kHz)	**Harmonic distortion (1 kHz)**	**Distorsion harmonique (1 kHz)**	**Distorsione atmonica**	< 0,05 %
Gleichlaufschwankungen	**Wow and flutter**	**Tolérance de vites**	**Toleranza di velocità**	< ± 0,001 %
Ausgangsspannung	**Output voltage**	**Tension de sortie**	**Tensione di uscita**	2 V
Max. programmierbare Musiktitel	**Max. music title programming**	**Titres de musique au max. programmé**	**Programmazione di pezzi musicale**	20
D/A Wandler	**D/A Converter**	**D/A Convertisseur**	**Quantizzazione**	16 Bit
Abtastfrequenz	**Sampling frequency**	**Fréquence de pick-up**	**Frequenza di campionatura**	352,8 kHz
Abtastsystem	**Pick up**	**Pick up**	**Testina di lettura**	3-Strahl-Laser 3-beam optical pick up
Leistungsaufnahme	**Power consumption**	**Consommation**	**Potenza assorbita**	15 W
Netzspannung Model Europa Model USA/Kanada	**Mains voltage** European model US/Canadian model	**Voltage secteur** Modèle Europe Modèle USA/Canada	**Tensione di rete** modello Europa modello Stati Uniti/Canada	 230 V/50 Hz 115 V/60 Hz

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921 658/04/92

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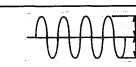
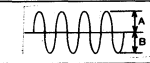
Abgleichanleitung CD 3700

Signalquelle	Einstellung Gerät	Meßgeräteanschluß	Abgleichposition	Abgleichbemerkungen
Phillips 5 A	**1) PLL**			
	Stop	Frequenzzähler 1. an PLCK (TP 103) 2. Kurzschluß TP 102–Gnd	VR 105	4,7 MHz ±10 kHz
		3. Kurzschluß trennen		
	2) Tracking Balance			
	Play	1. Osci an TEO (TP 104) 2. VR 104 auf Linksanschl.	VR 101	A = B 0 V DC 
		3. VR 104 in Mittelstellung		
	3) Focus offset			
	Stop	DC-Voltmeter an FEO (TP 104)	VR 102	0 V DC
	4) Focus gain			
	Play	Millivoltmeter AC an Stecker PN 102 (Pin 1)	VR 103	Maximum ermitteln zwischen Anfang und Ende der Disc. 300 mV AC bei Maximum
	5) Tracking gain			
	Play	Millivoltmeter AC an Stecker PN 102 (Pin 3)	VR 104	140 mV AC

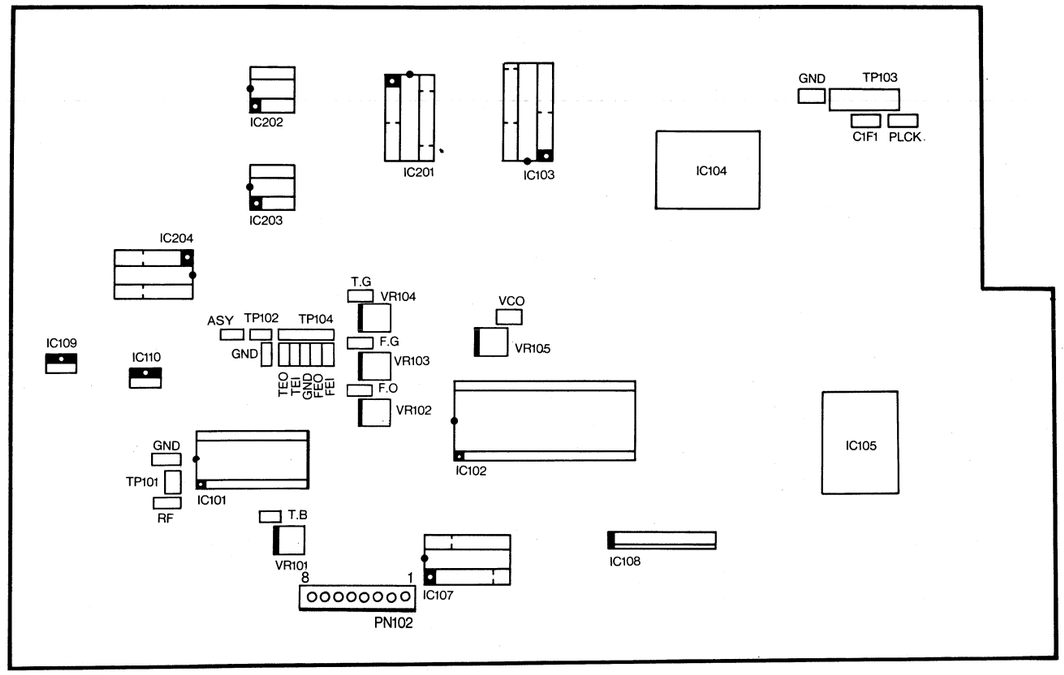
EFM-Signal an TP 101 (RF) 1,3 V SS
Alle Spannungen gegen Masse (Gnd) gemessen.
Nur wenn Gerät nicht anläuft: Alle Regler in Mittelstellung.

Tuning Instructions for CD 3700

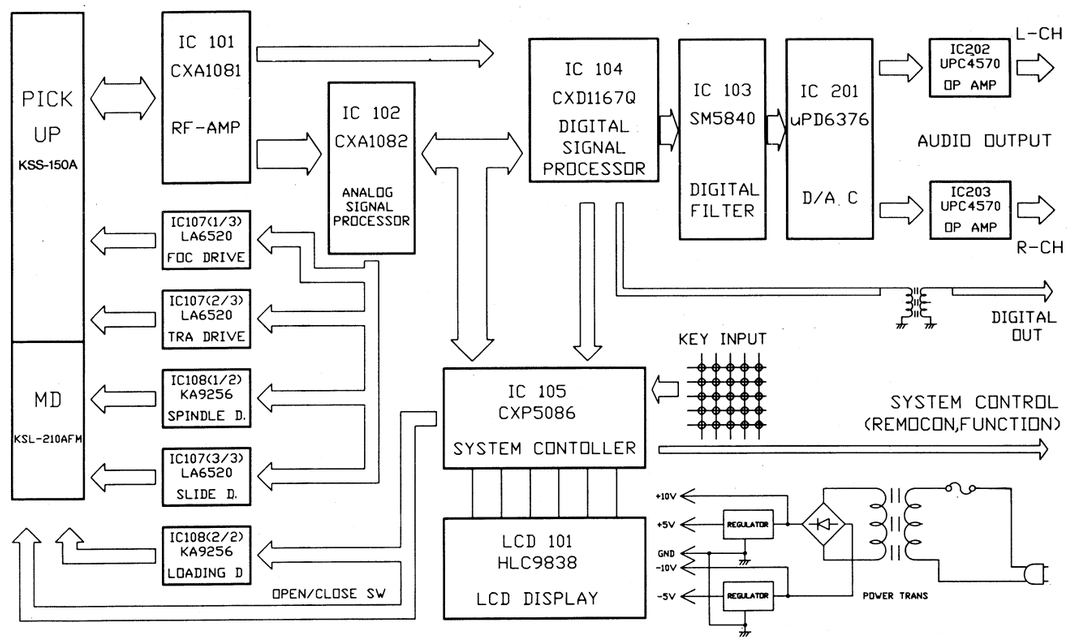
Signal source	Equipment setting	Connection of measuring instrument	Item to be tuned	Tuning, Remarks
Phillips 5 A	**1) PLL**			
	Stop	1. Frequency counter to PLCK (TP 103) 2. Short-circuit TP 102–Gnd	VR 105	4.7 MHz ±10 kHz
		3. Remove short-circuit		
	2) Tracking balance			
	Play	1. Oscilloscope to TEO (TP 104) 2. VR 104 to lefthand stop	VR 101	A = B 0 V DC 
		3. VR 104 in mid-position		
	3) Focus offset			
	Stop	DC voltmeter to FEO (TP 104)	VR 102	0 V DC
	4) Focus gain			
	Play	Millivoltmeter AC to plug PN 102 (Pin 1)	VR 103	Maximum between start and end of disc. 300 mV AC (at Maximum)
	5) Tracking gain			
	Play	Millivoltmeter AC to plug PN 102 (Pin 3)	VR 104	140 mV AC

EFM Signal to TP 101 (RF) 1.3 V SS
All voltages measured against earth (Gnd).
Only when the equipment not starts working: All controls in mid-position.

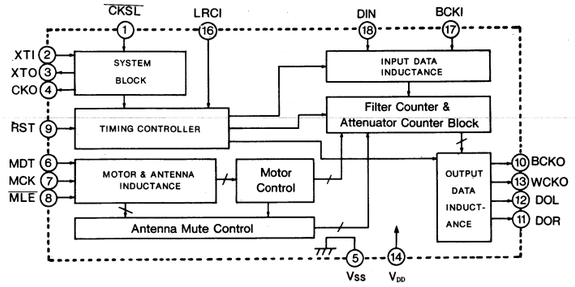
2. TEST AND ADJUSTMENT POINTS



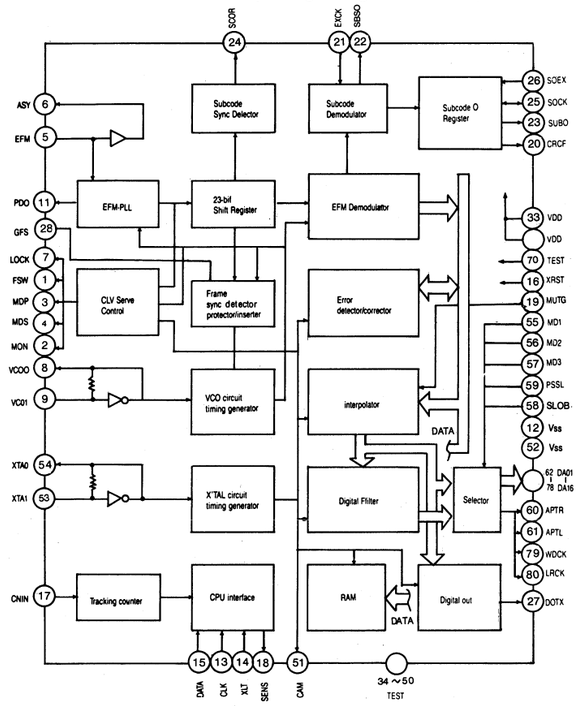
BLOCK DIAGRAM



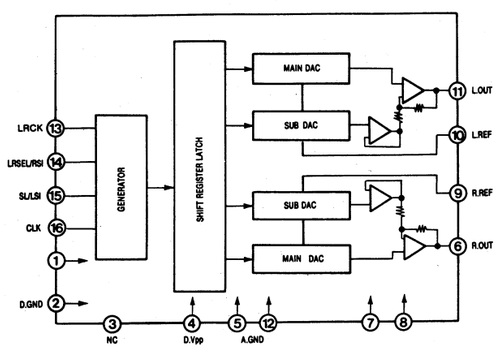
IC103 SM5840D (Digital Filter)



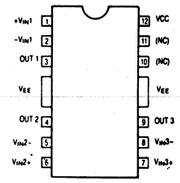
IC104 CXD1167Q (CD Digital Signal Processor)



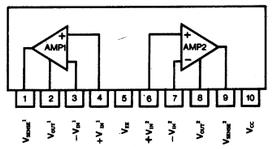
IC201 μPD6376



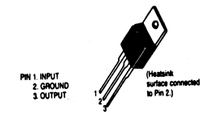
IC107 LA6520 (Drive)



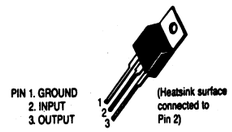
IC108 KA9256 (Dual Power Operational Amplifier)



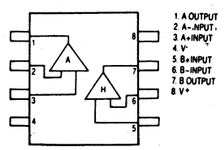
IC109 MC7805 (Regulator)

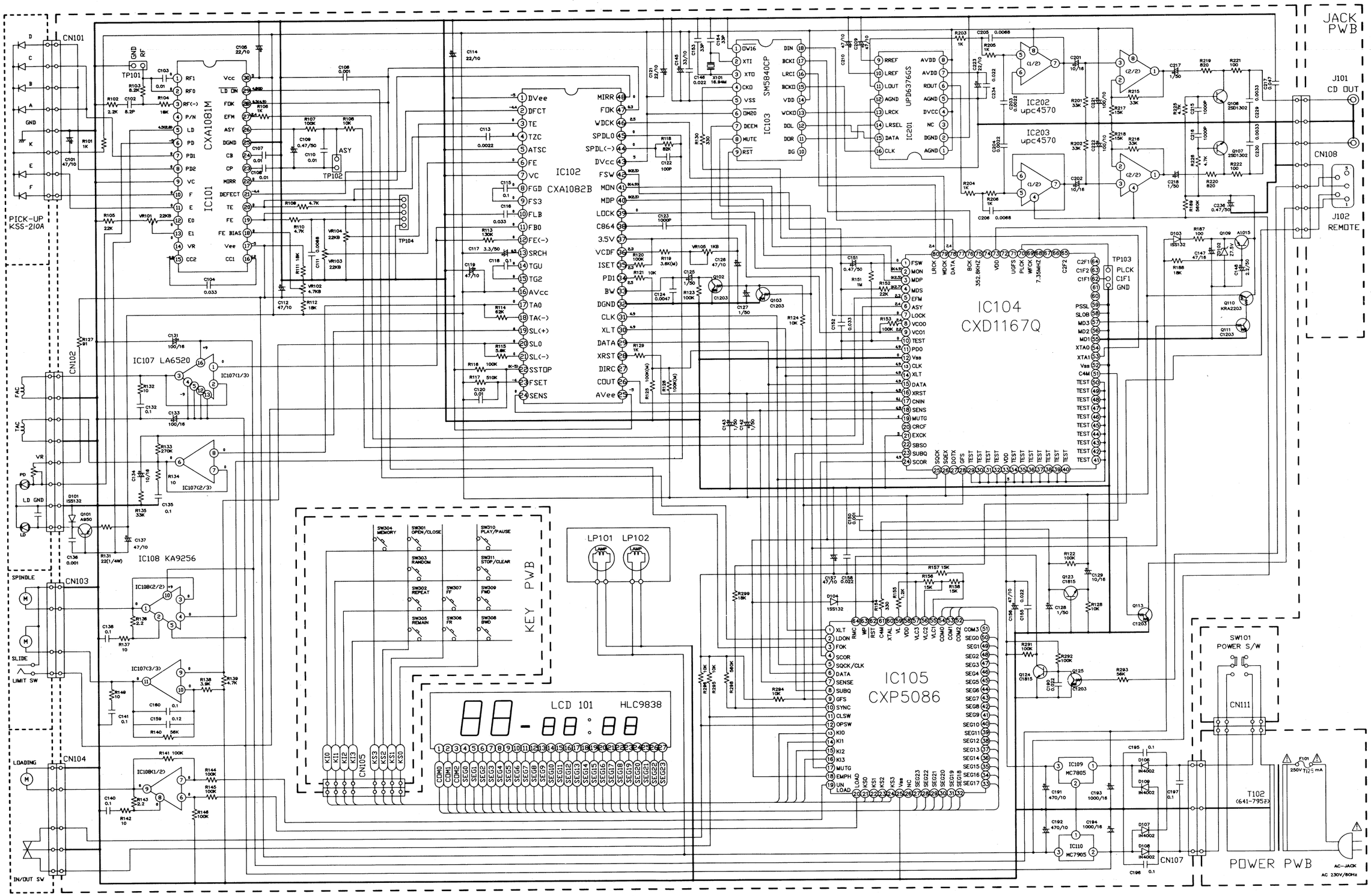


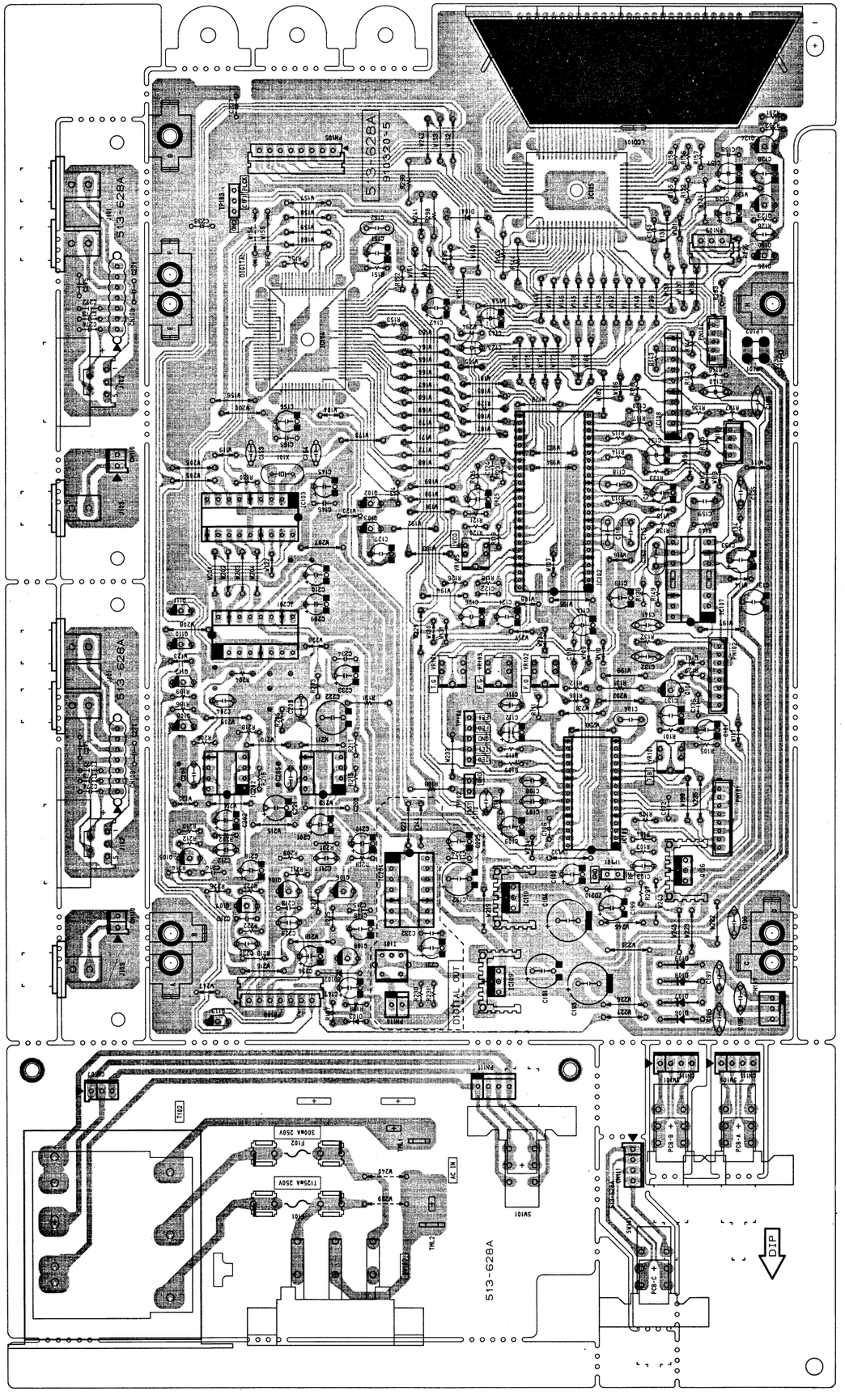
IC110 MC7905 (Regulator)

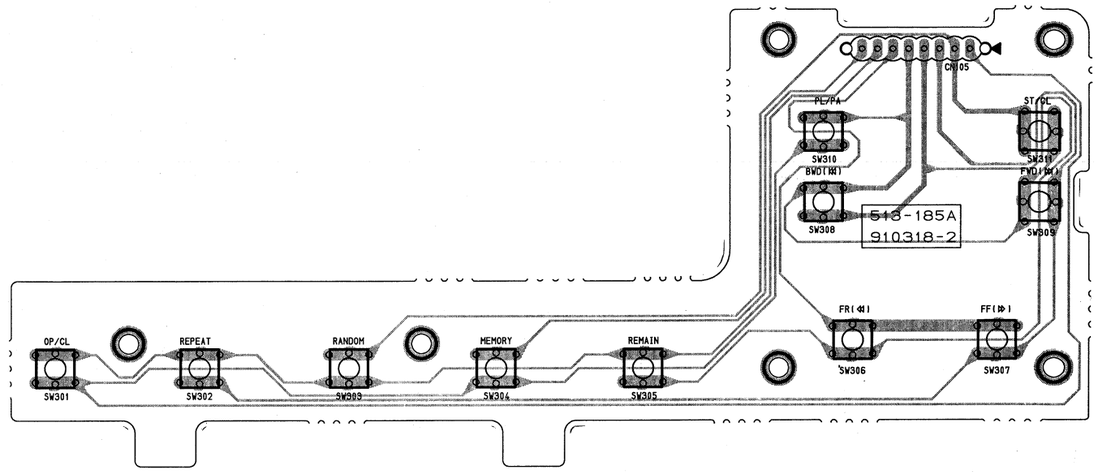


IC202,203 μPC4570(Dual OP Amp)

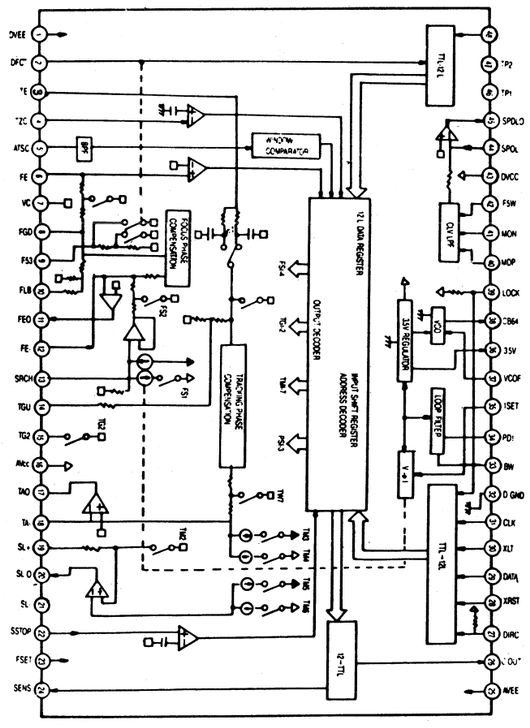



CN101
PICK-UP KSS-210A
IC101 CXA1081M
IC102 CXA1082B
IC103 SM5840CP
IC201 UPD6376GS
IC202 upc4570
IC203 upc4570
IC104 CXD1167Q
IC105 CXP5086
IC107 LA6520
IC108 KA9256
CN102
CN103
CN104
SPINDLE
SLIDE
LIMIT SW
LOADING
IN/OUT SW
LD GND
PD
VR
FAC
TAC
KEY PWB
LCD 101 HLC9838
LP101 LP102
SW304 MEMORY
SW301 OPEN/CLOSE
SW310 PLAY/PAUSE
SW303 RANDOM
SW311 STOP/CLEAR
SW302 REPEAT
SW307 FF
SW309 FWD
SW305 REMAIN
SW306 FR
SW308 BWD
CN105
JACK PWB
J101 CD OUT
CN108
J102 REMOTE
TP101
TP102
TP103 PLCK C1F1 GND
TP104
SW101 POWER S/W
CN111
CN107
T102 (641-795Z)
POWER PWB
AC-JACK
AC 230V/60Hz
F101 250V T1.25A
IC109 MC7805
IC110 MC7905

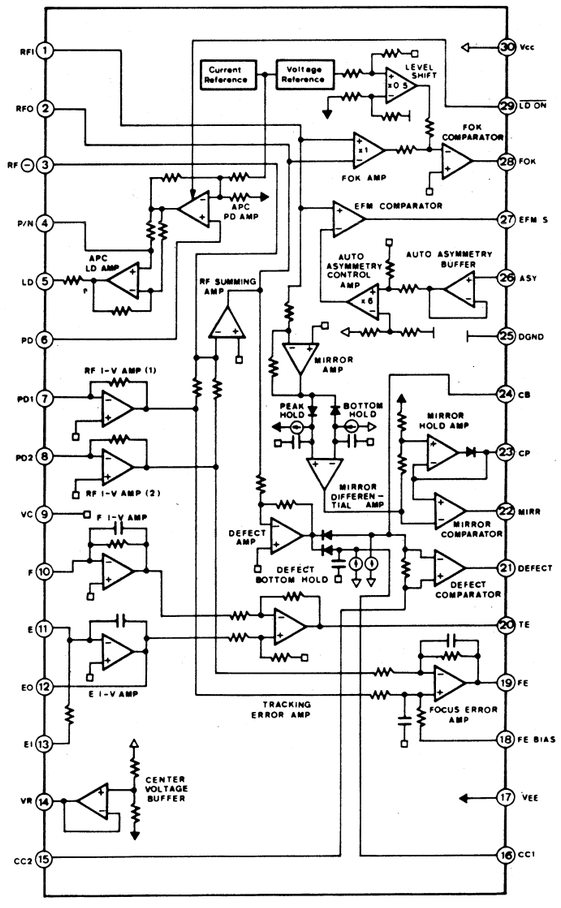


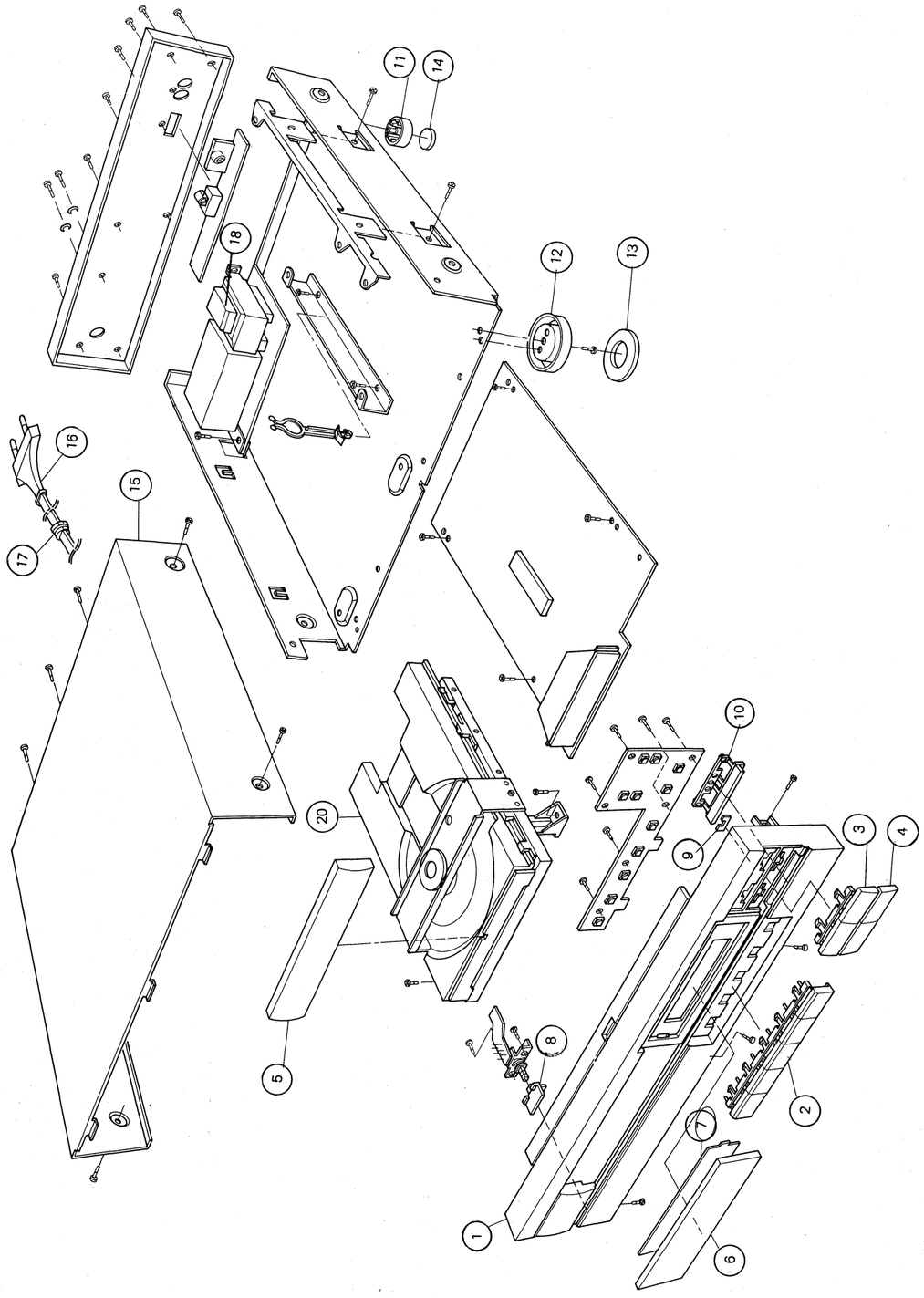


CXA 1082



CXA 1081S (RF Amplifier)

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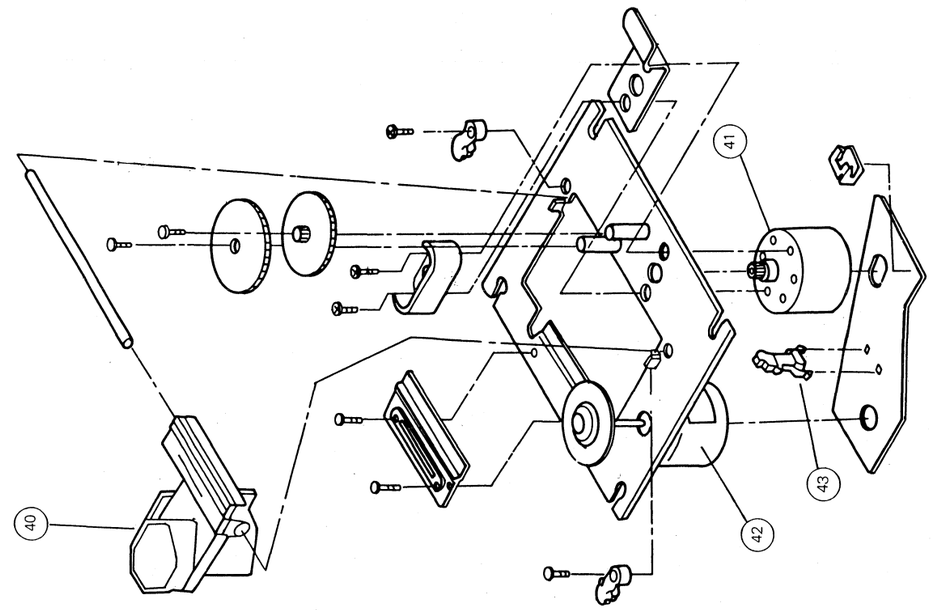
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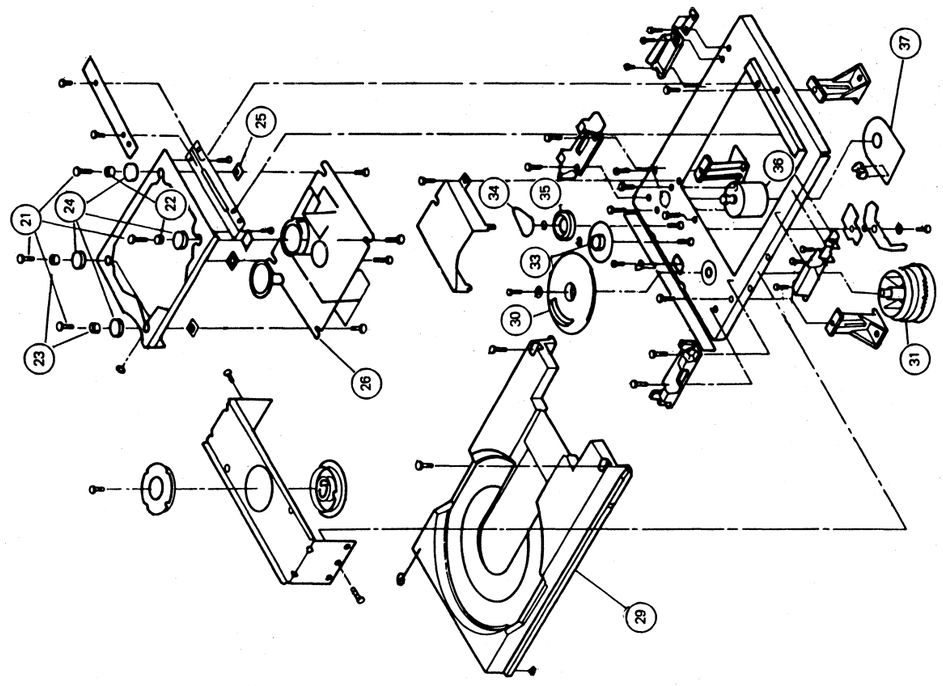
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Ersatzteile · Replacement parts · Pièces détachées · CD 3700

Pos.	Art.-Nr.	Bezeichnung
1	289 105	Frontblende
2	289 106	Taste 5-fach
3	289 107	Taste Skip
4	289 108	Taste PLAY-STOP
5	289 109	Abdeckung
6	289 110	Fenster, außen
7	289 111	Fenster, innen
8	289 054	Taste POWER
9	289 112	Filz
10	289 113	Taste SEARCH
11	286 692	Fuß
12	289 013	Fuß V
13	289 014	Filz B
14	289 015	Filz C
15	289 114	Gehäuseblech
16	232 996	Netzkabel Europa
17	237 548	Kabeldurchführung
18	289 402	Netztrafo
	289 208	Anschl.-Buchse 5-pol.
	289 209	Verbind.-Kabel 5-pol.
	287 962	Bedienungsanleitung CD 3700
		CD-Mechanik
21	284 813	Dämpferachse
22	284 817	Feder V
23	284 818	Feder M
24	284 815	Gummipuffer
25	284 814	Halter
26	283 708	Mechanik Pick-up
29	284 804	Schublade
30	284 808	Laderad
31	284 809	Kurvenrad
33	284 807	Zahnrad
34	284 315	Riemen
35	284 806	Antriebsrad
36	283 709	Motor (LOAD)
37	284 819	Motorplatte
40	286 958	Pick-up (KSS-150)
41	286 959	Motor Slide (Mabuchi)
41	286 960	Motor Slide (Matsushita)
42	286 961	Motor Spindle (Mabuchi)
42	286 962	Motor Spindle
43	286 963	Schalter

Pos.	Art.-Nr.	Bezeichnung
D 101	283 327	Diode 1 SS 132
bis		
D 104	283 327	Diode 1 SS 132
D 106	226 501	Diode 1 N 4002
ZD 102	283 553	Diode DZ 7,5
D 107	226 501	Diode 1 N 4002
bis		
D 109	226 501	Diode 1 N 4002
IC 101	289 225	IC CXA 1081
IC 102	289 226	IC CXA 1082
IC 103	289 145	IC SM 5840 C
IC 104	286 923	IC CXD 1167 Q
IC 105	287 803	IC CXP 5086 H
IC 107	289 227	IC LA 6520
IC 108	289 146	IC KA 9256
IC 109	284 290	IC GL 7805
IC 110	283 142	IC MC 7905 CT
IC 201	289 144	IC UPD 6376 CX
IC 202	283 556	IC UPC 4570
IC 203	283 556	IC UPC 4570
J 101	289 148	Cinchbuchse
J 102	289 208	Anschl.-Buchse 5-pol.
LCD 101	289 149	Display
LP 101	286 741	Lampe 6,3 V/200 mA
LP 102	286 741	Lampe 6,3 V/200 mA
Q 101	283 100	Transistor KTA 950 Y
Q 102	289 147	Transistor KRC 103 S-T 1
Q 103	289 147	Transistor KRC 103 S-T 1
Q 106	284 787	Transistor KTD 1302
Q 107	284 787	Transistor KTD 1302
Q 109	283 330	Transistor KTA 1015 GR
Q 110	289 147	Transistor KRC 103 S-T 1
bis		
Q 113	289 147	Transistor KRC 103 S-T 1
Q 123	282 076	Transistor KTC 1815 Y
Q 124	282 076	Transistor KTC 1815 Y
Q 125	289 147	Transistor KRC 103 S-T 1
SW 101	286 743	Schalter
SW 301	286 732	Schalter
bis		
SW 311	286 732	Schalter
T 102	289 402	Netztrafo
X 101	289 150	Quartz 16,9344 MHz

Änderungen vorbehalten! Subject to change! Sous réserve de modification!

WIRING DIAGRAM